

## Digital manifold

testo 557 – the manifold with Bluetooth, external vacuum probe and 4-hose filling set for commissioning, service and maintenance

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App integration via Bluetooth for fast and convenient monitoring and reporting on site

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Refrigerant update in the instrument via App

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4-way valve block for fast and efficient work

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External vacuum probe supports evacuation of the system with highly precise measurement

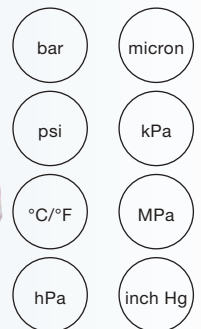
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250 hours' battery life

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Calculation of superheating/subcooling in real time via two external temperature probes

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 **Bluetooth + App**

testo refrigeration App  
for free download



The digital manifold testo 557 opens up new possibilities for efficient analysis and documentation – with Bluetooth connection to the App. The wireless connection allows users to read off the measurement data on a Smartphone or tablet, and to work more quickly and conveniently. In addition to this, the user can finalize and send the measurement report directly on site. The App allows the list of stored refrigerants to be updated, for example.

The external probe is also perfect for highly precise vacuum measurements. The testo 557 digital manifold is suitable for all measurements on a refrigeration system or heat pump. The manifold has a robust 4-way valve block with additional connection possibilities, for example for a vacuum pump or a refrigerant bottle. This provides a considerable handling advantage, and enables fast, safe and efficient work in commissioning, service and maintenance.

## Technical data / Accessories



### General technical data

Operating temperature	-20 to +50 °C
Storage temperature	-20 to +60 °C
Battery life	250 h (without illumination, without Bluetooth®, without vacuum probe)
Dimensions	220 x 125 x 70 mm
Weight	1200 g
Protection class	IP42
<b>Refrigerants in the instrument</b>	60 profiles: R11, R12, R123, R1234yf, R1234ze, R125, R13B1, R134a, R14, R142B, R152a, R161, R22, R227, R23, R290, R32, R401A, R401B, R401C, R402A, R402B, R404A, R406A, R407A, R407B, R407C, R407D, R407F, R408A, R409A, R410A, R411A, R412A, R413A, R414B, R416A, R417A, R420A, R421A, R421B, R422A, R422B, R422C, R422D, R424A, R426A, R427A, R434A, R437A, R438A, R502, R503, R507, R508A, R508B, R600, R600a, R744 (CO <sub>2</sub> ), R718 (H <sub>2</sub> O), update via App
Compatibility	requires iOS 7.1 or newer / Android 4.3 or newer requires mobile end device with Bluetooth 4.0

### Technical data 4-hose filling set

- Hoses (blue, red, 2 x yellow) for all common refrigerants, including R410A
- Length 1.5 m with 3 x connections 7/16" UNF straight and 7/16" UNF angled 45°
- 1 x connection 5/8" UNF straight and 5/8" UNF angled 45° (for vacuum pump)
- 3 x working pressure 55 bar, bursting pressure 275 bar
- 1 x working pressure 45 bar, bursting pressure 200 bar (for vacuum pump)

### Sensor types

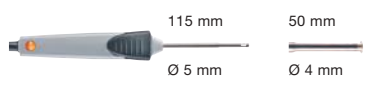




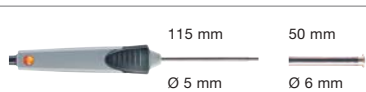
	Pressure	Temperature	Vacuum
Measuring range	-1 to 60 bar	-50 to +150 °C	0 to 20000 micron
Accuracy (at 22 °C)	±0.5 % fs	±0.5 °C	±(10 micron + 10 % of m.v.) (100 to 1000 micron)
Resolution	0.01 bar	0.1 °C	1 micron (0 to 1000 micron) 10 micron (1000 to 2000 micron) 100 micron (2000 to 5000 micron) 500 micron (5000 to 10000 micron) 5000 micron (10000 to 20000 micron)
Probe connections	3 x 7/16" – UNF + 1 x 5/8" – UNF	2 x plug-in (NTC)	1 x plug-in (external vacuum probe)
Overload	65 bar	–	–

### Accessories for measuring instrument

### Part no.

Transport case for testo 550 and accessories (also suitable for testo 557)	0516 0012
Spare valve set; exchange of 2 valve mechanisms with 4 valve knob covers (red, blue, 2 x black), compatible with testo 549, testo 550, testo 557 and testo 570.	0554 5570

# Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Part no.
<b>Air probes</b>				
Efficient, robust NTC air probe		-50 to +125 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining range)	0613 1712
Clamp probe for measurement on pipes for diameter 6 to 35 mm, NTC, Fixed cable 1.5 m		-40 to +125 °C	±1 °C (-20 to +85 °C)	0613 5505
Clamp probe for temperature measurements on pipes from 6 mm to 35 mm diameter, NTC, Fixed cable 5.0 m		-40 to +125 °C	±1 °C (-20 to +85 °C)	0613 5506
Pipe wrap probe with Velcro for pipe diameter to max. 75 mm, Tmax. +75 °C, NTC, Fixed cable 1.5 m		-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)	0613 4611
Pipe clamp probe (NTC) for pipe diameters 5 to 65 mm, Fixed cable 2.8 m		-50 ... +120 °C	±0.2 °C (-25 ... +80 °C)	0613 5605
Waterproof NTC surface probe for flat surfaces, Fixed cable 1.2 m		-50 to +150 °C Long-term meas. range +125 °C, short-term +150 °C (2 minutes)	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	0613 1912



The suspension hook guarantees secure attachment of the digital manifold during measurement.



Clamp probe for pipes from Ø 6 mm to Ø 35 mm, NTC



App integration via Bluetooth for display of measurement data on mobile devices, and finalization of measurement report on site.



Highly precise vacuum measurements with the external probe

**NDTKALA<sup>®</sup>.CO**  
Non-Destructive Test (NDT) Equipment



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